# AUTHOR INDEX

Al-Rawi, N. A., 293
Ali Kettani, M., 97
Anis, W. R., 227
Annan, R. H., 135
Arbib, H. A., 61
Aziz, A., 293

Beaumont, B., 313 Bishop, J. W., 335 Bloss, W. H., 47 Bosio, A., 189

Cahen, D., 61 Canevari, V., 189 Chabot, B., 35 Cheng, R. G., 25 Christofides, C., 165 Christoforou, N., 197, 215 Cigdem, E., 253 Claverie, A., 35

Dai, G.-C., 159 Damaskinos, S., 151, 197, 215 Dhere, N. G., 13 Garabedian, P., 313 Gislon, R., 73 Green, M. A., 1, 329 Guillaume, J.-C., 313

He, Y.-S., 159 Hill, R., 125

Kalb, P. D., 269 Kiss, Z., 263

Lakshmikumar, S. T., 323 Lalovic, B., 263 Leslie, J. D., 197, 215 Levy-Clement, C., 303 Longrigg, P., 241 Luque, A., 107

Ma, H.-L., 159 Messana, C., 73 Mohammad, A. A., 293 Moskowitz, P. D., 269 Murat, B., 253

Narayanan, S., 329 Nataf, G., 313 Pavlovic, T., 263 Pfisterer, F., 47

Rastogi, A. C., 323 Rioux, J., 303 Romeo, N., 189

Saleh, M. B., 177 Shabana, M. M., 177 Sharon, M., 303 Shiue, L. R., 263 Sieb, B., 263 Soliman, M. M., 177 Spaggiari, C., 189 Stone, J. L., 135

Takahashi, K., 87 Tamizhmani, G., 303 Tonon, T., 263

Van Dine, J., 263 Verie, C., 313

Wolff, M. A., 61 Wu, X., 263

Zheng, Z.-X., 159 Zini, L., 189

# SUBJECT INDEX

### Aluminium

amorphous silicon solar cells on anodically oxidized aluminum substrate, 263

improvement in the open-circuit voltage and efficiency of silicon solar cells by rear aluminium treatment. 329

#### Australia

solar cell research and development in Australia, 1

#### Brazil

the development of solar photovoltaic energy in Brazil, 13

#### CdS

current-voltage, capacitance-voltage, and capacitance-temperature measurements on CdS/CuInSe<sub>2</sub> solar cells, 215

electrical and photovoltaic characterization of n-CdS:In/Si heterojunction devices, 253

study of deep levels in CuInSe<sub>2</sub> by deep level transient spectroscopy measurements on CdS/CuInSe<sub>2</sub> solar cells, 197

### CdTe

p-type CdTe thin films doped during growth by neutral high energy nitrogen atoms, 189

### (CdZn)S

an improved laser scanning technique for evaluation of solar cells: application to CuInSe<sub>2</sub>/(CdZn)S devices, 151

### China

advancement of photovoltaics research and development in the People's Republic of China, 25

### CuInSe<sub>2</sub>

current-voltage, capacitance-voltage, and capacitance-temperature measurements on CdS/CuInSe<sub>2</sub> solar cells, 215

an improved laser scanning technique for evaluation of solar cells: application to CuInSe<sub>2</sub>/(CdZn)S devices, 151

study of deep levels in CuInSe<sub>2</sub> by deep level transient spectroscopy measurements on CdS/CuInSe<sub>2</sub> solar cells, 197

# Efficiency

improvement in the open-circuit voltage and efficiency of silicon solar cells by rear aluminium treatment, 329

### Feasibility study

autonomous photovoltaic power system or connection with electrical grid? A preliminary feasibility study for small and isolated communities. 165

#### France

from research and development to the market: photovoltaics in France, 35

## **GaInAs**

Ga<sub>0.47</sub>In<sub>0.53</sub> as photovoltaic booster cells for tandem solar energy conversion, 313

# GeF4

use of GeH<sub>4</sub> and GeF<sub>4</sub> in a-Si photovoltaic cell manufacture: hazard assessment and management options, 269

## GeH<sub>4</sub>

use of GeH<sub>4</sub> and GeF<sub>4</sub> in a-Si photovoltaic cell manufacture: hazard assessment and management options, 269

#### Germany

photovoltaic activities in the Federal Republic of Germany, 47

### Grid design

optimization of grid design for solar cells at different illumination levels, 177

# Hazard assessment

use of GeH<sub>4</sub> and GeF<sub>4</sub> in a-Si photovoltaic cell manufacture: hazard assessment and management options, 269

Hot-spots

microplasma breakdown and hot-spots in silicon solar cells, 335

In2O3:Sn

indium-tin-oxide-metal interfacial resistance and its implication for solar cells, 323

**Isolated communities** 

autonomous photovoltaic power system or connection with electrical grid? A preliminary feasibility study for small and isolated communities, 165

Israel

research and demonstration activities in photovoltaics in Israel, 61

Italy

programs and perspectives on photovoltaics in Italy, 73

Japan

sunshine project in Japan — solar photovoltaic program, 87

Laser scanning

an improved laser scanning technique for evaluation of solar cells: application to CuInSe<sub>2</sub>/(CdZn)S devices, 151

Microplasma breakdown

microplasma breakdown and hot-spots in silicon solar cells, 335

NiP

study of electrochemical and photoelectrochemical properties of nickel phosphide semiconductors, 303

Nitrogen

p-type CdTe thin films doped during growth by neutral high energy nitrogen atoms, 189

Reliability

reliability analysis of photovoltaic modules, 241

Reversible changes

a new mechanism of light-induced reversible changes in a-Si: H p-i-n solar cells, 159

Saudi Arabia

the inter-Islamic network of renewable energy sources, 97

Shadowing

partial shadowing protection without diodes, 227

Silicon

amorphous silicon solar cells on anodically oxidized aluminum substrate, 263

electrical and photovoltaic characterization of n-CdS:In/Si heterojunction devices, 253

improvement in the open-circuit voltage and efficiency of silicon solar cells by rear aluminium treatment, 329

microplasma breakdown and hot-spots in silicon solar cells, 335

a new mechanism of light-induced reversible changes in a-Si: H p-i-n solar cells, 159

use of GeH<sub>4</sub> and GeF<sub>4</sub> in a-Si photovoltaic cell manufacture: hazard assessment and management options, 269

Solar modules

a new equation correlating the parameters influencing the performance of solar modules, 293

Spain

photovoltaics and its research and development structure in Spain: the situation in 1988, 107

Spectroscopy

study of deep levels in CuInSe<sub>2</sub> by deep level transient spectroscopy measurements on CdS/CuInSe<sub>2</sub> solar cells, 197

U.S.A.

The U.S. national photovoltaics program — investing in success, 135

United Kingdom

photovoltaics in the United Kingdom,



